OPERATING INSTRUCTIONS

AUDIO MIXER

SYSTEM 800

inKel

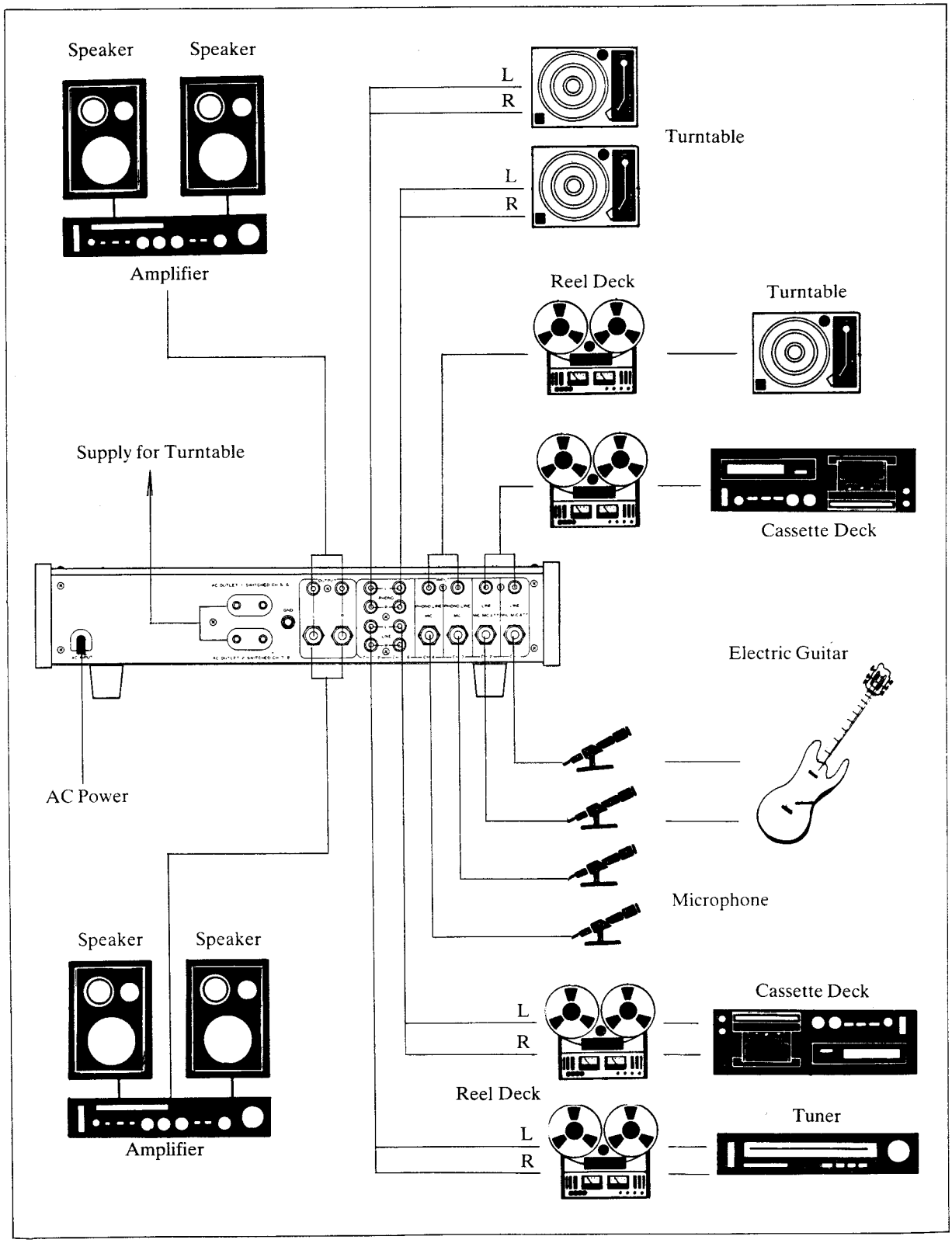
Unpacking and Installation

Although it is neither complicated to install nor difficult to operate your Audio Mixer, a few minutes of your time is required to read this manual for a properly wired installation and becoming familiar with its many features and how to use them.
Please take a great care in unpacking your Mixer and do not discard the carton and other packing materials. They may be needed when moving your set and are required if it ever becomes necessary to return your set for service. Never place the unit near radiators, in front of heating vents, to direct sun light, in excessively humid or dusty location to avoid early damage and for your years of quality entertainment. Connect your complementary components as illustrated in the following page.

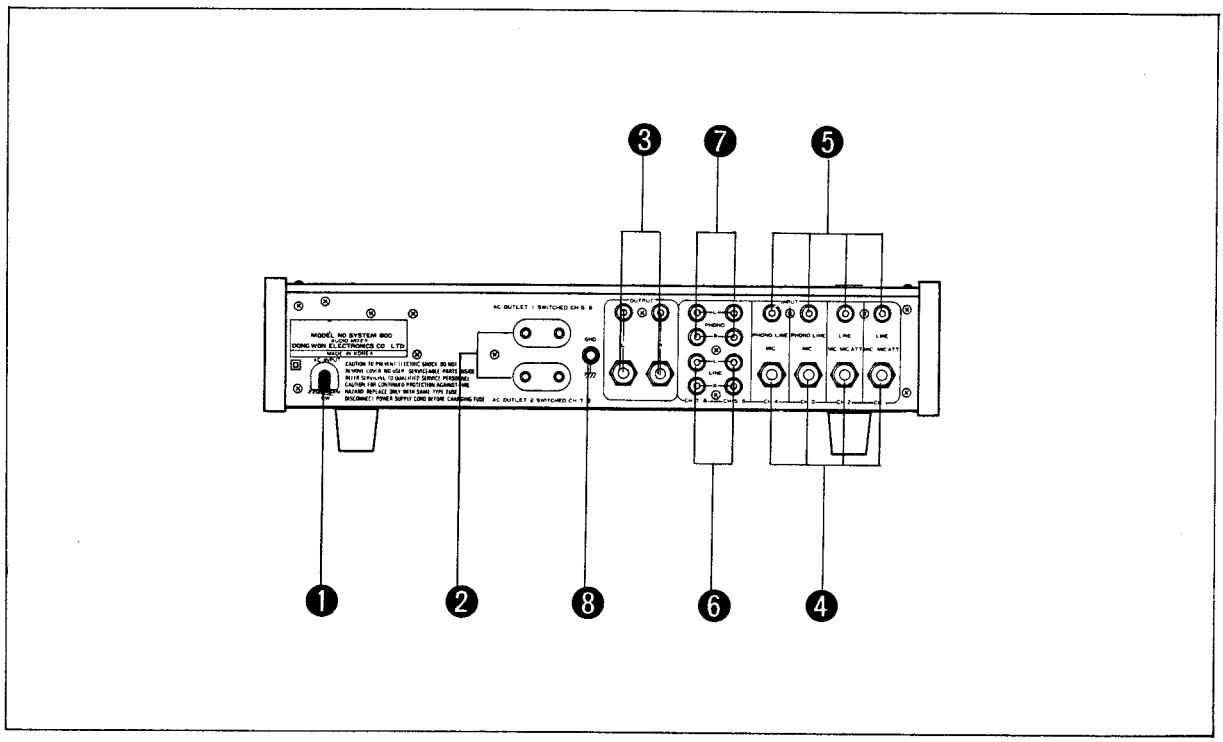
Feature of Audio Mixer SYSTEM 800

- 8 CHANNEL INPUTS AND 2 CHANNEL OUTPUTS AMPLIFIERS ARE INCORPORATED:
  Any sound source of microphones, turntables, cassette decks, and electric guitars can be applied to the four input CH 1-4, and turntables, cassette decks, can be applied to the four input CH5-8.
- TONE CONTROL
  Adjustment of TREBLE and BASS controls for the acoustic characteristics of microphones, speakers and room structure.
- PANPOT FOR STEREO EFFECT
  You can distribute the signal level from each input source between left and right output to make a stereo sound effect.
- ECHO FUNCTION
  To make the effect of echo soundon CH 1-4, SYSTEM 800 employs BBD (Bucket Brigade Devices) IC.
  You can individually adjust the echo volume level of CH 1-4, and adjust the level as a whole with Echo Master.
- MONITOR
  You can monitor the output or the program of individual channel before from channel fader stage by headphone.
- ELECTRO-START FUNCTION
  Channel faders of CH 5/6,7/8 are provided with electro-start function to control AC power automatically to the AC outlet on the rear panel.

Rear Panel Connections

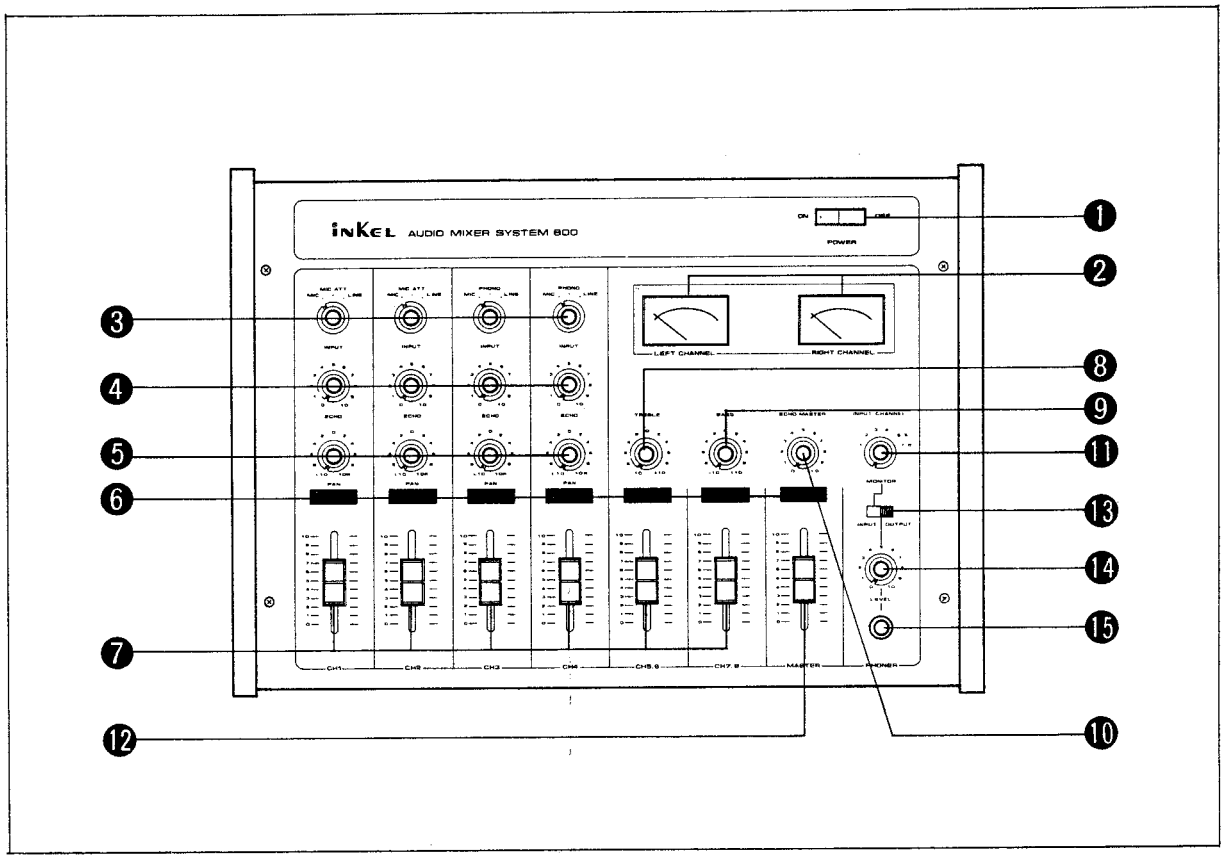


Rear Panel Feature



1. AC INPUT CORD
   Plug this AC INPUT CORD into AC outlet.
2. AC OUTLETS FOR TURNTABLES
   You can turn the turntables which are connected to this outlets ON or OFF by using the Electro-start function of CH 5/6,7/8.
3. LINE OUT
   Signal from these OUTPUT jacks are to be connected to LINE IN jacks or TAPE IN jack if necessary on the amplifiers.
4. MIC/MIC ATT INPUT
   These input jacks are to be connected with microphone.
   When CH 1,2 are selected MIC ATT, they are to be connected with electric guitar etc.
5. LINE/PHONO INPUT
   These input jacks are to be connected with deck, tuner etc.
   When CH 3,4 are selected PHONO, they are to be connected with turntables.
6. LINE INPUT
   These stereo inputs are to be connected with deck, tuner etc.
7. PHONO INPUT
   These stereo inputs are to be connected only with turntables.
8. GROUND TERMINAL
   This terminal is to be connected to the ground terminal of turntable to reduce hum to minimum.

Front Panel Feature



1. POWER SWITCH
   To turn the mixer ON or OFF, press the left or right of this switch button.
2. VU METERS
   Indicate the output level or PFL level.
3. INPUT SELECTORS
   These switches are used for selecting the appropriate sensitivity level of MIC/MIC ATT/LINE on channel 1,2 and MIC/PHONO/LINE on channel 3,4.
4. ECHO CONTROLS
   You can adjust echo level of individual channel.
5. PANPOT CONTROLS
   You can distribute the signal level between left and right channels to make a stereo sound effect.
6. NAME PLATE
   You can fill in these white plate with the name of equipments which are connected to the relevant channels.
7. CHANNEL LEVEL VOLUME
   These are used for adjusting the volume of signal sources which are connected to the relevant channels.
8. TREBLE TONE CONTROL
   You can control the high frequency tone of mixed sound as much as ±10dB at 10KHz.
9. BASS TONE CONTROL
   You can control the low frequency tone of mixed sound as much as ±10dB at 100Hz.
10. ECHO MASTER CONTROL
    You can adjust the echo volume level as a whole.
11. PFL SELECTOR
    When the MONITOR SELECTOR is at left, this PFL (Pre Fader Listening) selector is used for selecting the input channel which you want to monitor.
12. MASTER LEVEL VOLUME
    This is used for adjusting the volume of finally mixed sound.

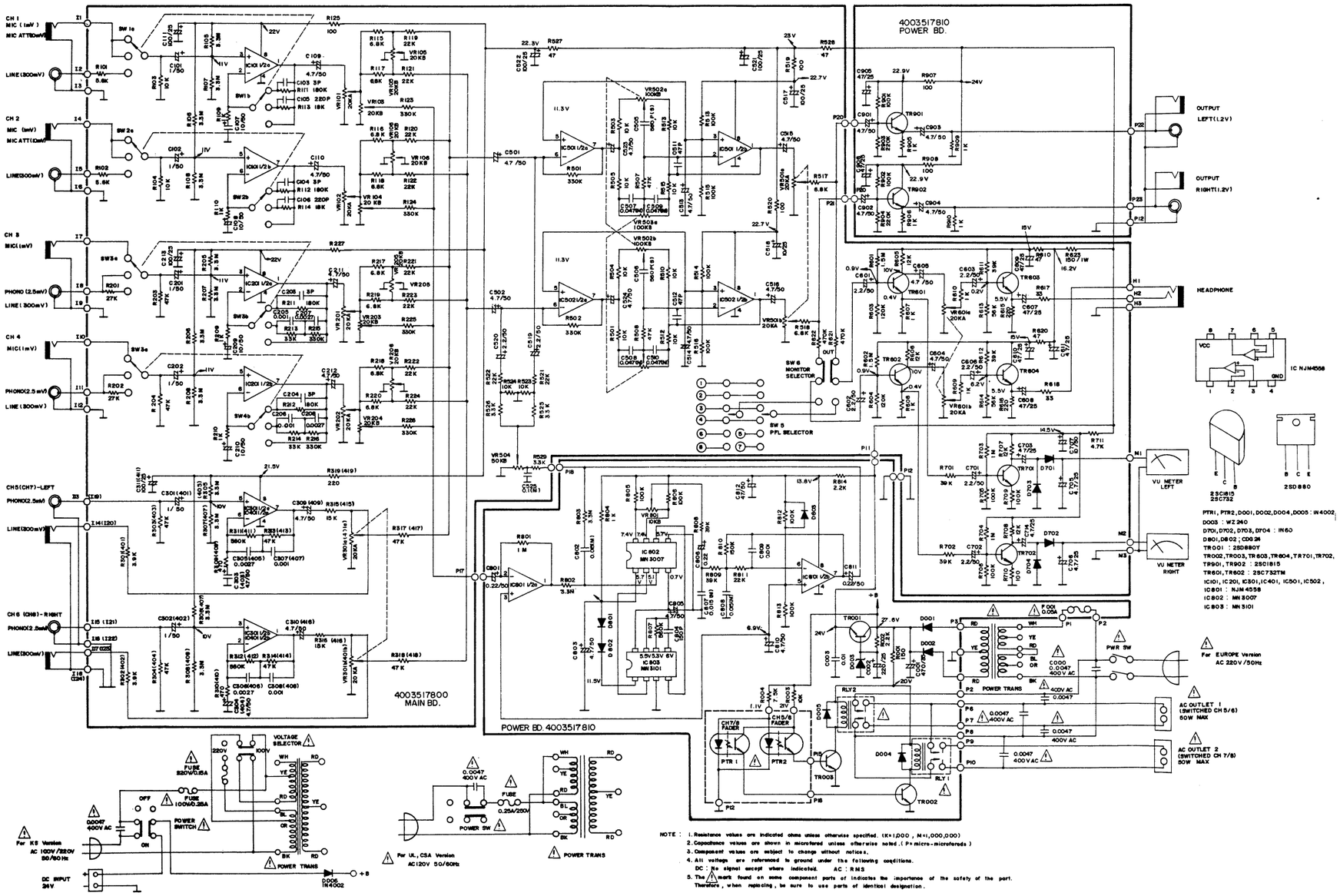
13. MONITOR SELECTOR
    This is used for selecting PFL signal or Output signal which you want to monitor.
14. HEADPHONE LEVEL VOLUME
    This is used for adjusting the volume level of headphone monitoring.
15. HEADPHONE JACK
    This jack is used for headphone when you are monitoring.

* CH 5/6,7/8 are provided with electro-start function which can switch AC outlets, and designed for stereo function.

Specifications

Rated Output Voltage	: 1.2V (1.5V OPTION)
Input Senistivity	
MIC	: 1mV
MIC ATT	: 10mV
LINE	: 300mV
PHONO	: 2.5mV
Frequency Response (-3dB)	
MIC	: 25Hz – 12KHz
MIC ATT	: 25Hz – 20KHz
LINE	: 20Hz – 40KHz
PHONO	: RIAA Curve ±1dB
Total Harmonic Distortion	: 0.02%
Signal to Noise Ratio	
MIC	: 55dB
MIC ATT	: 70dB
PHONO	: 65dB
LINE (CH 1-4)	: 73dB
LINE (CH 5-8)	: 67dB
Tone Control	
BASS at 100Hz	: ±10dB
TREBLE at 10KHz	: ±10dB
Headphone Output	: 1mW (at 8ohm Load)
General	
AC Power	: AC 100V/120V/220V/240V, 50/60Hz
Power Consumption	: 6W
Dimensions	: 384(W) x 88(H) x 270(D)mm
Weight (Net)	: 3.7kg

Schematic Diagram



NOTE : 1. Resistance values are indicated ohms unless otherwise specified. (K=1,000 , M=1,000,000)
2. Capacitance values are shown in microfarad unless otherwise noted.(P= micro-microfarads)
3. Component values are subject to change without notices.
4. All voltages are referenced to ground under the following conditions.
DC : No signal except where indicated. AC : RMS
5. The ⚠ mark found on some component parts of indicates the importance of the safety of the part. Therefore, when replacing, be sure to use parts of identical designation.